Author Index

Page numbers in italics refer to authors of books reviewed

Ahmad, S. D., 284–285
Akam, M., 282–283
Allen, N., 285
Almouslem, A. B., 145–153
Alvarez, G., 359–372
Amaro, R., 359–372
Arano, B., 119–123
Ashburner, M., 280

Bahrman, N., 267–274
Bander, S. A. A., 277
Baur, B., 239–244
Beaumont, M., 279
Bella, J. L., 119–123
Biémont, C., 125–133
Bonet, R. G., 285
Bonhomme, F., 289–297, 299–308
Borgia, G., 276
Bortoli, A., 203–208
Bougourd, S. M., 83–87
Boursot, P., 289–297, 299–308
Boutin-Stadler, V., 395–400
Bull, J. J., 315–320
Bulmer, M. G., 315–320
Burghardt, A. D., 321–328
Burnet, B., 280
Bush, G. L., 245–266

Cariou, M.-L., 67–72
Carter, P. A., 191–194
Catalan, J., 289–297, 299–308
Catchpole, C. K., 275
Charlesworth, D., 373–382
Chen, B. Y., 309–314
Chin, Shih-Foong, 163–170, 171–179
Connor, H. E., 373–382
Cooke, P. H., 203–208
Costa, R., 107–117
Coyne, J. A., 155–162
Crampton, J., 277, 278, 285
Croft, J. A., 97–106

Da Lage, J-L., 67–72
Damerval, C., 267–274
David, J-R., 67–72
Davies, K. E., *428*
Davies, T. M., 37–45
Day, T. H., 279
de Miranda, J. R., 221–229

Edgar, L., 19–27
Eggleston, P., 221–229, 277, 278
Evans, G. M., 284

Feder, J. L., 245–266
Flanagan, S., 285
Fletcher, H. L., 285
Forbes, A., 281–282
Forster, J. W., 280, 284

Game, A. Y., 203–208
Gautier, C., 125–133
Gillet, E., 135–141
Glover, D. M., 283–284
Gonzalez, C., 283–284
Gordon, G. H., 163–170, 171–179
Gordon, I. J., 409–425
Grafen, A., 278–279
Guerra, A., 359–372
Guerrero, I., 281–282

Hamelin, M. H., 47–58
Hancock, J. F., 11–18
Hassan, L., 339–342
Hattemer, H. H., 135–141
Heneen, W. K., 309–314
Herrero, P., 119–123
Hickey, I., 285
Hidalgo, A., 281–282
Hofbauer, J., *429*
Holmes, D. S., 83–87
Hopper, S. D., 383–393
Hughes, J. M., 191–194
Hunziker, J. H., 321–328

Ingham, P. W., 278, 281–282
Irish, V., 282–283
Ish-Horowicz, D., 282
Izquierdo, J. I., 343–352

Jäckle, H., 281
Jackson, I. J., 284
James, S. H., 383–393
Jayakar, S. D., 107–117
Jean, R., 395–400
Jenkins, G., 209–219
Jones, G. H., 19–27, 97–106
Jones, M., 209–219
Jones, R. N., 339–342

Kearsey, M. J., 89–95, 401–408
Kennison, J. A., 281
Kissinger, M., 281
Klemm, M., 239–244
Knight, S. E., 1–9
Krebs, S. L., 11–18
Kubba, J., 89–95

Labate, J., 203–208
Lamnissou, K., 29–35
Lasko, P. F., 280
Latta, R. G., 181–189
Lawrence, P. A., 283
Luo, Z. W., 401–408
Lycett, G., 277

Martin, M., 283
Meng, W. C. B., 283
Miflin, B. J., (Ed.), *427–428*
Mitchelson, A., 283
Miyashita, N., 299–308
Moriwaki, K., 289–297, 299–308
Morris, A., 278
Muhammed Ali, A-Z. K., 280

Nakano, Y., 281–282
Narayan, R. K. J., 284–285

Oakeshott, J. G., 203–208
Ocaña, J., 195–202
Ockendon, D. J., 89–95
O'Donald, P., 276
O'Hare, K., 283
Orr, H. Allen, 231–237
Osti, M., 107–117
Owen, A. R. G., 59–65
Owen, R. E., 59–65

Parida, A., 284–285
Parker, J. S., 19–27
Parkhurst, S. M., 282
Partridge, L., 276–277
Percy, M. J., 285
Periquet, G., 47–58
Phillips, R. G., 278, 281–282
Pitafi, K. D., 279
Poggio, L., 321–328
Pomiankowski, A., 276
Posselt, U. K., 339–342
Prevosti, A., 195–202

Raff, J. W., 283–284
Rees, H., 209–219
Ribó, G., 195–202
Roberts, I. J. H., 278, 285–286
Ronsseray, S., 47–58
Rubio, J., 343–352

Sampson, J. F., 383–393
Sanchez-Herrero, E., 282–283, 283–284
Sano, Y., 353–357
Saumitou-Laprade, P., 395–400
Scanlon, M. J., 284
Schoen, D. J., 181–189
Scott, M. P., 281
Setter, A. P., 89–95
Shaw, C. H., (Ed.), *427*
Shire, J. G. M., 277
Sigmund, K., *429*
Simcox, A., 285–286
Smith, B. M., 89–95
Smith, D. A. S., 409–425
Smith, J. M., 275, *428*
Snaydon, R. W., 37–45
Stiles, J. S., 280

Tamkun, J. W., 281
Tautz, S., 281
Taylor, A., 281–282
Thompson, B. K., 329–337
Tilney-Bassett, R. A. E., 145–153
Townson, H., 285
Tudor, M., 283

Valero, M., 395–400
van Ooijen, J. W., 73–81
Vernet, Ph., 395–400

Waller, D. M., 1–9
Warren, Ann, 277
Warwick, S. I., 329–337
Werner, C. P., 89–95
Whitehouse, C., 19–27
Whitfield, W. F. G., 283–284
Whittle, J. R. S., 278, 281–282, 285–286

Zahavi, A., 275
Zalucki, M. P., 191–194
Zapata, C., 359–372
Zonta, L. A., 107–117
Zouros, E., 29–35

Species Index

Page numbers in italics refer to the subject of the papers

Achillea millefolium, 42
Adalia bipunctata, 423
Aegilops speltoides, 19
Agropyron pungens, 396
Allium montanum, 218
  schoenoprasum, *83–87*
Alnus glutinosa, 136
Amauris niavius, 422
Anthoxanthum odoratum, *37–45*
Asclepias fruticosa, 191
Avena barbata, 7
  longiglumis, 218
  maroccana, *209–219*
  pilosa, 218
  sativa, 209, 218
  strigosa, 218

Bertholletis excelsa, 136
Beta maritima, *395–400*
Biston betularia, 423
Bonamia ostreae, 369
Brassica alboglabra, *309–314*
  campestris, *309–314*
  napus, *309–314*
  oleracea, *89–95*, 310, 314
Bulnesia, 321, 325, 326.
  arborea, 326
  bonariensis, 325, 326
  chilensis, 326
  foliosa, 325, 326
  retama, 326
  sarmientoi, 326
  schickendantzii, 325, 326

Camellia japonica, 136
Capsicum, 164
Carduus acanthoides, *329–337*
  nutans, *329–337*
Catostomus clarkii, 258
Cepaea, 423
Chenopodium quinona, 16
Chlamydomonas, 151
Chondrina clienta, *239–244*
Clintonia borealis, 42
Colias, 191, 193
  meadii, 258
Coreopsis spp., 16
Cortaderia, *373–382*
  richardii, *373–382*
  selloana, *373–382*
  splendens, 380, 381
  toetoe, 379
Crab apple, 164
Crassostrea gigas, 359
  virginica, 359, 368, 369, 370
Crataegus spp., *245–266*
  brachyacantha, 257
  douglasii, 257
  mollis, 246, 257
  monogyna, 257
  punctata, 257
Crepis capillaris, *19–27*

Cyanococcus spp., 11, 17
Cynosurus cristatus, 181, 389

Danaus chrysippus, 409, 421, 422
  plexippus, *191–194*
Dendrocoelum lacteum, *97–106*
Deroceras laeve, 7
Drosophila spp., 7, 57, 67, 156, 162, 267, 401
  ananassae, *67–72*
  americana americana, *29–35*
  arizonensis, *29–35*
  auraria, *29–35*
  bipectinata, *67–72*
  borealis, *29–35*
  buzzatii, 156, 161
  eohydei, *29–35*
  ercepeae, *67–72*
  ercepeae-like, *67–72*
  equinoxialis, *29–35*
  erecta, *29–35*
  hydei, *29–35*
  jambulina, *29–35*
  lachaisei, *67–72*
  lacteum, 104, 105
  malerkotliana, *67–72*
  mauritiana, *155–162*
  melanogaster, 7, *29–35*, *47–58*, 67, *107–117*, *125–133*, *155–162*, *195–202*, *203–208*, *221–229*, 258, *343–352*, 360, 401
  mercatorum, *29–35*
  mojavensis, *29–35*
  monieri, *67–72*
  montana, 7, *29–35*
  mulleri, *29–35*
  nova-mexicana, 236
  obscura, 67
  orena, *29–35*
  parabipectinata, *67–72*
  paulistorum, *29–35*
  peninsularis, *29–35*
  persimilis, *231–237*
  pesudoananassae, *67–72*
  pseudoobscura, 199, *231–237*
    bogotana, *231–237*
    pseudoobscura, *231–237*
  repleta, *29–35*
  sechellia, *155–162*
  serido, 156, 161
  serrata, *29–35*
  simulans, *29–35*, 55, *155–162*, 203
  teissieri, *29–35*
  tropicalis, *29–35*
  vallismaia, *67–72*
  varians, *67–72*
  virilis, *29–35*
  willistoni, *29–35*, 55
  yakuba, *29–35*

Eucalyptus spp., 137
  crucis, 390
  delegatensis, 390
  kitsoniana, 390
  pauciflora, 390
  regnans, 390

Eucalyptus (continued)
rhodantha, 383–393
stoatei, 384

Fagus sylvatica, 136
Fragaria × *ananassa*, 12
Fundulus heteroclitus, 258, 360, 370

Gaylussacia spp, 259

Haplopappus gracilis, 19
spinulosus, 12
Heuchera grossulariifolia, 12, 15
micrantha, 12, 15
Hordeum spontaneum, 7
vulgaris, 7
Hymenoptera, *59–65*
Hypochoeris maculata, 25
Hypolimnas bolina, 420, 421
misippus, *409–425*

Impatiens capensis, *1–9*, *181–189*
glandulifera, 150
pallida, *181–189*
Indian mustard, 164
Ipomoea purpurea, 181
Isotoma petraea, 391

Juglans spp., 136

Larrea, *321–328*
ameghinoi, 321, 323
cuneifolia, *321–328*
divaricata, *321–328*
nitida, *321–328*
tridentata, *321–328*
Liatris cylindracea, 181, 360, 370
Limnanthes douglasii, 373
Liriodendron tulipifera, 136
Locusta migratoria, 105
Lolium, 209, 218
multiflorum, *339–342*
perenne, 42, 217, 218, *339–342*
temulentum, 217
Lupinus succulentus, 7
Lycopersicon, 107

Macoma balthica, 359, 360, 370
maize, 164
Malus angustifolia, 246
coronaria, 246
diversifolia, 246
glabrata, 246
ioensis, 246
pumila, *245–266*
Medicago spp., 16, *145–153*
sativa, 12, 146
Mercenaria mercenaria, 369
Mesostoma ehrenbergii ehrenbergii, 101, 104
Mulinia lateralis, 359, 369, 370
Mus musculus, *289–297*, *299–308*
ssp. *bactrianus*, *289–297*, *299–308*
castaneus, *289–297*, *299–308*
domesticus, *289–297*, *299–308*
mollossinus, 289–297, *299–308*
musculus, *289–297*, *299–308*
Myrmeleotettix maculatus, 26, 86
Mytilus edulis, 359, 368, 369, 370

Nicotiana spp., 163, 164, 168

Oenothera, *145–153*
Origanum vulgare, 395
Oryza glaberrima, *353–357*
longistaminata, 356
rufipogon, 356
sativa, *163–170*, *171–179*, *353–357*
Ostrea edulis, *359–372*

Papillio glaucus, 259, 420
pea, 164
Pelargonium, *145–153*
Petunia, 146, 164
hybrida, 146
parodii, 146
Pimephales promelas, 258
Pintoa, 321, 326, 327
chilensis, 326, 327
Pinus contorta, 181
pinaster, *267–274*
resinosus, 242
Placopecten magellanicus, 359, 360, 370
Plantago lanceolata, 378, 379, 382, 395, 396, 399
Pleuronectes platessa, 360
Plumbago zeylanica, 150
Populus, 136
Potentilla glandulosa, 42
Primula, 423
Prosopis ruscifolia, 136
Pseudococcus affinis, 25
Psychotria nervosa, 181

Quercus petraea, 136

rapeseed, 164
Rattus fuscipes, 86
Rhagoletis mendax, 259
pomonella, *245–266*
Rumina decollata, 242

Schistocerca gregaria, 105
Scilla, 209
Solanum spp., 16
tuberosum, 12
Spisula solidissima, 369

Thymus vulgaris, 395, 399
Tolmeia spp., 16
menziesii, 12
tomato, 164, 402
Tragopogon mirus, 12
miscellus, 12
Trifolium subterraneum, 37
Triticum spp, 299
aestivum, 12, 16, 218
Triturus alpetris, *119–123*
ssp. *alpestris*, *119–123*
cyreni, 119–123

Ulmus spp., 136
Urginia maritima, 16

Vaccinium spp, 16, 17, 259
corymbosum, *11–18*

Wheat, 218

Zoarces viviparus, 140

Subject Index

absence of variation in isolated populations of a land snail, 239–244
adaptation to new host plants of the apple maggot fly, 245–265
additive genotypic variance, estimation of, 73–81
allozyme heterozygosity and viability in the European oyster, 359–372
  variation in *Drosophila melanogaster*, 343–352
amylase polymorphism in *Drosophila ananassae*, 67–72
anther culture in Brussels sprouts, 89–95
autocorrelation, spatial, of genotypes in *Impatiens*, 181–189

B-chromosome selection in *Allium*, 83–87
  stability and inheritance of, in *Crepis*, 19–27

chiasma frequency, sex differences in, in *Dendrocoelum*, 97–106
chromosome segregation, 11–18
colchicine treatment of ryegrass seedlings, changes induced by, 339–342
competitive ability, dominance for, in *Drosophila*, 221–229

differences in heterochromatic bands in *Triturus*, 119–123
disequilibrium in *Impatiens*, 1–9
DNA content in *Larrea*, 321–328
dominance for competitive ability in *Drosophila*, 221–229

environmental sex determination, 315–320
esterase 6 in *Drosophila*, 203–208
estimation of additive genotypic variance, 73–81
  of linkage, maximum likelihood of, 401–408
erucic acid content, inheritance of, in *Brassica napus*, 309–314
evolutionary genetics, 428, 429
  relatedness and ovary transplants in *Drosophila*, 29–35

fatty acid composition of resynthesized *Brassica napus*, 309–314
fitness estimators to increase viability in the European oyster, 359–372
  in *Drosophila melanogaster*, effects of allozyme variation on, 343–352
frequency clines for the apple maggot fly, 245–266

gene flow between distantly related species, 353–357
genes causing postzygotic isolation in *Drosophila*, 231–237
genetic admixture in Japanese mice, 299–308
  analysis of enzyme phenotypes, 135–141
    of locomotor activity in *Drosophila*, 107–117
  consequences of outcrossing, 1–9
  control of plastid inheritance, 145–153
    of polymorphism in *Impatiens*, 181–189
  factors and chromosome pairing in *Avena*, 209–219
  structure and mating system in bird-pollinated mallee, 383–393
  variation in *Danaus*, 191–194
    in ryegrass, 339–342
    lack of, in a land snail, 239–244
genetics of *Hypolimnus misippus* hindwing polymorphism, 409–425
genome analysis, 428
gynodioecism in *Cortaderia*, 373–382

heterochromatin, characterization of, in *Triturus*, 119–123
heterozygosity and fitness in the European oyster, 359–372
  in relation to activity times in *Danaus*, 191–194
hindwing polymorphism in an African butterfly, 409–425
host plants, adaptation to new, by the apple maggot fly, 245–266
hybridisation in *Drosophila melanogaster*, effect of a mutation rate, 155–162
  in two species of rice, 353–357

inheritance of B-chromosomes in *Crepis*, 19–27
  tetrasomic, in blueberries, 11–18
interaction between transposable elements, 125–133
irradiated pollen in rice, 163–170, 171–179
isoenzyme phenotypes, genetic analysis of, 135–141

land snail, lack of genetic variation in , 239–244
larval crowding and adult mating behaviour in *Drosophila*, 195–202
linkage between a marker gene and a quantitative locus, 401–408
  map in maritime pine, 267–274
locomotor activity in *Drosophila*, 107–117
longevity and environmental sex determination, 315–320

male sterility in *Beta maritima*, 395–400
  in *Cortaderia*, 373–382
mating success, effect of larval density on, in *Drosophila*, 195–202
  system in a bird-pollinated mallee, 383–393
maximum likelihood estimation of linkage, 401–408
meiotic sex differences in *Dendrocoelum*, 97–106
mouse Y chromosome evolution, 289–297
mutation rates in hybrid *Drosophila*, 155–162

nuclear DNA, variation in *Larrea*, 321–328
  genes from Japanese wild mice, 299–308

outcrossing in *Impatiens*, genetic consequences of, 1–9
  levels in two sympatric species of *Carduus*, 329–337
ovary transplants in *Drosophila*, 29–35

P elements in *Drosophila* populations, 47–58
plant population performance in spaced-plant trials, 37–45
  molecular biology, 427, 427–428
plastid inheritance, genetic control of, 145–153
pollen flow and dynamics of male sterility in *Beta maritima*, 395–400
  direction of, in rice, 353–357
polymorphic esterase 6, numbers of, in *Drosophila* populations, 203–208
polymorphism of amylase in *Drosophila ananassae*, 67–72
polyphyletic origin in Japanese mice, 299–308
population size in social Hymenoptera, 59–65
  substructure in *Impatiens*, 181–189
post-zygotic isolation in *Drosophila* hybridisation, 231–237
protein amounts, loci controlling in maritime pine, 267–274

rice pollen, tolerance of, to radiation, 163–170, 171–179

selection for B-chromosomes in *Allium*, 83–87
self-fertilization studies in *Carduus*, 329–337

single seed descent lines in Brussels sprouts, 89–95
spaced-plant trial technique, 37–45
speciation genes in *Drosophila*, 231–237
synaptonemal complex formation in *Avena*, 209–219

tetrasomic inheritance in blueberries, 11–18
transposable elements, interactions between, in *Drosophila*, 125–133

variation in plastid inheritance, 145–153
variations of a Y-chromosome repeated sequence, 289–297
vitellogenin uptake and evolutionary relatedness, 29–35